



Material Safety Data Sheet

Date of Preparation: 01/02/04

Section 1 Chemical Product and Company Identification

Product Name: Crafcro Roadsaver, Polyflex, Parking Lot, Asphalt Rubber, DF, Supcrflex, Loop Detector, Pavement Joint Adhesive, Polyfiber, Fiber Asphalt, Marker Adhesive Products

Chemical Name: Modified Asphalt

Chemical Formula: Mixture

CAS Number: Mixture

Manufacturer: CRAFCO, Inc. 420 N. Roosevelt Chandler, AZ 85226

EMERGENCY TELEPHONE NUMBERS: 1(602) 276-0406 Normal Business Hours
Chemtrec 1(800) 424-9300 After Business Hours

Section 2 Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt.
Asphalt	8052-42-4	40-95%
Vacuum Distillate	64741-53-3	0-20%
Petroleum Distillate	64741-96-4	0-20%
Hydrotreated Heavy Napthenic Distillate	64742-52-5	0-20%
Styrene-Butadiene Block Copolymer	9003-55-8	0-15%
Ethylene-Butadiene Block Copolymer	66070-58-4	0-15%
Vulcanized Rubber Compound	N/A	0-25%
Mineral Filler	1317-65-3	0-50%
Polyester Fibers	25038-59-9	0-10%

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Asphalt	5 mg/m3	N.E.	5 mg/m3	N.E.	5 mg/m3	N.E.	N.E.
Vacuum Distillate	5 mg/m3	N.E.	10 mg/m3	N.E.	N.E.	N.E.	N.E.
Petrol. Distillate	5 mg/m3	N.E.	10 mg/m3	N.E.	N.E.	N.E.	N.E.
H.H.N. Distillate	5 mg/m3	N.E.	10 mg/m3	N.E.	N.E.	N.E.	N.E.
SBS Copolymer	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
EBS copolymer	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Rubber	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Mineral Filler	15 mg/m3	N.E.	10 mg/m3	N.E.	N.E.	N.E.	N.E.
Fibers	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
N.E. - none established							

Section 3 - Hazards Identification

☆☆☆☆ Emergency Overview ☆☆☆☆

Potential Health Effects

Primary Entry Routes: Inhalation, Skin if product is in liquid state

Inhalation: Inhalation of mists, vapors or fumes may cause headache, nausea, and dizziness. Prolonged exposure to hot asphalt fumes may produce respiratory irritation, pulmonary edema and hypoxia.

Eyes: Exposure to mists, vapors or fumes may cause irritation. Direct contact with hot material will cause thermal burns and possible blindness.

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†Sec. 8

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Skin: Direct contact with hot material will cause thermal burns. Prolonged exposure may cause dermatitis, drying or irritation.
Ingestion: None expected. Ingestion of hot material will cause thermal burn. Ingestion may cause gastrointestinal disturbances, irritation, nausea, vomiting, blockage and diarrhea.

Carcinogenicity: There is inadequate evidence that bitumens alone are carcinogenic to humans. There is sufficient evidence for the extracts of steam-refined bitumens, air-refined bitumens and pooled mixtures of steam- and air-refined bitumens in experimental animals. There is inadequate evidence for the carcinogenicity of undiluted air-refined bitumens in experimental animals. There is limited evidence for the carcinogenicity of undiluted steam-refined bitumens and for cracking residue bitumens in experimental animals.

Medical Conditions Aggravated by Long-Term Exposure: Respiratory irritation and dermatitis.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Apply artificial respiration if necessary. Seek medical attention.

Eye Contact: Flush thoroughly with water. If hot material contacts eyes, flush continuously with water and seek medical attention.

Skin Contact: If burned by hot product, cool affected area with cool water. Do not attempt to remove solidified material from skin as the damaged skin may be easily torn. Do not use solvents. Seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

Section 5: Fire-Fighting Measures

Flash Point: >400F minimum

Autoignition Temperature: >700F

Lower Explosive Level (LEL): Not determined

Upper Explosive Limit (UEL): Not determined

Flammability Classification: Class III B Combustible

Extinguishing Media: Dry chemical, Carbon Dioxide,

Unusual Fire or Explosion Hazards: This product may ignite when sufficient heat is applied. Smoke from fire may be hazardous.

Combustion Products: Carbon Monoxide, Carbon Dioxide, Sulfur dioxide, Hydrogen Sulfide and other decomposition products of hydrocarbons.

Fire-Fighting Instructions and Equipment: Use of foam or water may cause frothing. Do not release runoff from fire control to sewers or waterways. Use a water spray to cool fire exposed containers. Use air supplied breathing apparatus in enclosed areas where heavy smoke may occur.



Section 6: Accidental Release Measures

Spill /Leak Procedures: Stop spill at source. Shut off sources of ignition. Confine spill by diking or impoundment. Allow material to cool and scrape up material for disposal. Clean up spill but do not flush to sewer or surface water. Ventilate area and avoid breathing mists, vapors or fumes. Notify local health and pollution control agencies as appropriate. Follow applicable OSHA regulations (29 CFR 1910.120). This material is not a hazardous waste as defined in RCRA. For disposal follow all federal, state and local regulations regarding solid waste.

Section 7: Handling and Storage

Handling and Storage Precautions: Unheated material presents no known hazards.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use engineering controls to reduce air contamination to permissible exposure limits and/or threshold limit values (Section 2).

Eye / Face Protection: Safety glasses or goggles and face shield.

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Skin Protection: Use gloves that protect against thermal burns when handling hot material. At a minimum wear long sleeved cotton shirt buttoned at the collar and full length cotton pants. Synthetic fibers can melt and adhere to the skin when heated. Do not fold back or roll up cuffs.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH approved respirator.

Section 9 - Physical and Chemical Properties

Physical State: Solid at room temperatures. Liquid above the softening point

Appearance: Black, Dark Brown

Odor: Petroleum

Odor Threshold: Not determined

Vapor Pressure: Not determined

Vapor Density (Air=1): Not determined

Specific Gravity (H₂O=1): 1.0-1.7

Water Solubility: Negligible

Boiling Point: >800F

Melting Point: See Product Data Sheet

% Volatile: <1%

Evaporation Rate: Not determined

pH: Not determined

Section 10 - Stability and Reactivity

Stability: Stable

Polymerization: Will not occur

Chemical Incompatibilities: Strong oxidizing agents

Conditions to Avoid (Stability): None known

Hazardous Decomposition Products: See Section 5

Section 11 - Toxicological Information

Carcinogenicity: There is inadequate evidence that bitumens alone are carcinogenic to humans. There is sufficient evidence for the extracts of steam-refined bitumens, air-refined bitumens and pooled mixtures of steam- and air-refined bitumens in experimental animals. There is inadequate evidence for the carcinogenicity of undiluted air-refined bitumens in experimental animals. There is limited evidence for the carcinogenicity of undiluted steam-refined bitumens and for cracking residue bitumens in experimental animals.

Component: Asphalt Cement

Toxic dose- LD 50: 5-15 mg/kg (oral rat)

Section 12 - Ecological Information

Ecotoxicity: No Data

Environmental Transport: No Data

Environmental Degradation: No Data

Soil Absorption: No Data

Section 13 - Disposal Considerations

This product, as supplied, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261). Under the Resource Conservation and Recovery Act, it is the responsibility of the user to determine, at the time of disposal, whether the material is a hazardous waste subject to RCRA.

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state and local regulations.

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Section 14 - Transport Information

Ambient Temperature Material (solid in box)
 Proper Shipping Name: Not regulated by D.O.T.
 Hazard Class: Not applicable
 D.O.T. LD. No.: Not applicable
 D.O.T. Shipping Label: Not regulated by D.O.T.

Hot Material (liquid above 212F)
 Proper Shipping Name: Elevated Temperature Liquid N.O.S.
 Hazard Class: 9
 Packing Group: PGIII
 Labels Required: Class 9
 Placards Required: "HOT" UN3257

Section 15 - Regulatory Information**U.S. Federal Regulatory Information:**

RCRA Hazardous Waste Number: Not listed
 RCRA Hazardous Waste Classification (40 CFR 261): This material should not be hazardous due to characteristics

CERCLA: Not listed

CERCLA Reportable Quantity(RQ): This material in it's solid form is not a hazardous substance and does not have a reportable quantity. However, if spilled in liquid form into the waters of the U.S., it may be reportable under the Clean Water Act.

SARA 311 Categories:	Immediate (Acute) Health Effects	Yes
	Delayed (Chronic) Health Effects	Yes
	Fire Hazard	No
	Sudden Release of Pressure Hazard	No
	Reactivity Hazard	No

EPA/TSCA Inventory: yes

State Regulations: The following chemicals are specifically listed by individual states, for details on each states regulatory requirements you should contact the appropriate agency in that state.

Pennsylvania Right-to-Know-Limestone (calcium carbonate), Asphalt (fumes)

Rhode Island Hazardous Substances List-Limestone (calcium carbonate). Asphalt (fumes)

Florida Hazardous Substance List- Asphalt (fumes)

Minnesota Right-to-know-Limestone (calcium carbonate), Asphalt (fumes)

Massachusetts Right-to-Know-Limestone (calcium carbonate), Asphalt (fumes), mineral oil, petroleum distillates, heavy naphthenic, carcinogen, extraordinarily hazardous

New Jersey Right-to-Know- Asphalt (fumes)

Texas Air Contaminants With Health Effects Screening Level

Illinois Toxic Substance Disclosure to Employees List

California State Superfund Hazardous Substance

California Proposition 65 Carcinogens or Reproductive Toxins List: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Other Regulations: None known

Foreign Inventories: Canadian WHMIS

Section 16 - Other Information

NFPA Hazard Rating	- Health	2 Moderate
	- Fire	1 Slight
	- Reactivity	0 Least

Prepared By: John Hobbs Phone: 602-276-0476

Preparation Date: 03/27/03

Supersedes MSDS Dated: 05/12/02

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